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NOTICE OF ALLOWANCE AND FEE(S) DUE

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08/24/2009

APPLE/FENWICK SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041 EXAMINER

FINDLEY, CHRISTOPHER G

ART UNIT PAPER NUMBER

2621 DATE MAILED: 08/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,564	09/03/2003	Adriana Dumitras	18602-08204	6437

TITLE OF INVENTION: LOOK-AHEAD SYSTEM AND METHOD FOR PAN AND ZOOM DETECTION IN VIDEO SEQUENCES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	11/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

ppropriate. All further adicated unless correcte aaintenance fee notifica		ng the Patent, advance on nerwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(s	s) Transmittal. This rs. Each additional	s certif paper	icate cannot be used fo , such as an assignmen	r domestic mailings of the or any other accompanying nt or formal drawing, must
61520 7590 08/24/2009 APPLE/FENWICK SILICON VALLEY CENTER 801 CALIFORNIA STREET				have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
MOUNTAIN V	IEW, CA 94041							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/655,564	09/03/2003		Adriana Dumitras				18602-08204	6437
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE DUE
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FINDLEY, CH	RISTOPHER G ence address or indication	2621	348-700000 2. For printing on t	h	++ C+ 1:-	4		_
FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Tasubstitute for filing (B) RESIDENCE: (C)	he pa g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	TRY)	ocument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	<u> </u>	Individual 🖵 Co	rporati	on or other private gro	up entity 🖵 Government
a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			A check is enclos Payment by credi The Director is he	ed. t card creby	l. Form PTO-2038	is atta	required fee(s), any def	
	tus (from status indicated s SMALL ENTITY statu	,	☐ b. Applicant is no	long	er claiming SMAL	LEN	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2).
OTE: The Issue Fee an iterest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a regis	stered a	attorney or agent; or the	e assignee or other party in
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n application. Confiden ubmitting the completed is form and/or suggesti	tiality is governed by 35 dapplication form to the ions for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection i depending upon the i e Chief Information O	s esti Indivi Ifficer	mated to take 12 n dual case. Any co . U.S. Patent and	ninutes mment Traden	to complete, including s on the amount of tin park Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete attment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLE/FENWIC	CK	FINDLEY, CHRISTOPHER G		
SILICON VALLE		ART UNIT	PAPER NUMBER	
801 CALIFORNIA MOUNTAIN VIEV	· -	2621 DATE MAILED: 08/24/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 657 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 657 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/655 564	DUMITDAS ET AL			
Notice of Allowability	10/655,564 Examiner	DUMITRAS ET AL. Art Unit			
	OLIDIOTODIJED EINDLEV	0004			
	CHRISTOPHER FINDLEY	2621			
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS . This application is subje	application. If not included tion will be mailed in due course. THIS			
1. \blacksquare This communication is responsive to <u>RCE filed 5/31/2009</u> .					
2. ☑ The allowed claim(s) is/are <u>1-18</u> .					
 3.					
2. ☐ Certified copies of the priority documents have		o			
3. ☐ Copies of the certified copies of the priority do	• • •				
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements			
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (P	TO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	ne Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s)	E	al Datant Application			
1. Notice of References Cited (PTO-892)	5. Notice of Inform	• •			
 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 					
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	r. □ Examiners Ame	HIGHIEHV COHIHEHL			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ement of Reasons for Allowance			
9.					
	/Marsha D. Banks-l				
	Supervisory Patent	Examiner, Art Unit 2621			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Remarks pages 6-17, filed 5/31/2009, with respect to the rejections of claims 1-18 have been fully considered and are persuasive. The rejections of claims 1-12 under 35 U.S.C. 101 and claims 1-18 under 35 U.S.C. 103(a) have been withdrawn.

Allowable Subject Matter

2. Claims 1-18 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to fairly teach or suggest identifying at least two largest regions in each frame using a look-ahead detector executed by the processor, wherein the first largest region includes motion vectors with substantially similar motion angles and occupies a largest number of pixels in a frame and the second largest region includes motion vectors with substantially similar motion angles and occupies a second largest number of pixels in a frame; determining percentages of each frame covered by each of the at least two largest regions using the look-ahead detector; determining a statistical measure of the motion angles for at least one of the two largest regions using the look-ahead detector; and comparing the percentages and statistical measure to threshold values to identify at least one of a pan and a zoom in the video sequence using the look-ahead detector, as recited inter alia in claims 1, 7, and 13.

Art Unit: 2621

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER FINDLEY whose telephone number is (571)270-1199. The examiner can normally be reached on Monday-Friday (8:30 AM-5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571-272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/ Supervisory Patent Examiner, Art Unit 2621

/Christopher Findley/

/Andy S. Rao/ Primary Examiner, Art Unit 2621 August 15, 2009